## **AMENDMENTS TO THE CLAIMS**

This listing will replace all prior versions and listings of the claims in this application.

## Listing of the Claims:

- 1. (Cancelled)
- 2. (Currently Amended) The method of claim [[1]] 6 further including the steps of washing and then drying the zeolite-containing product.
- 3. (Currently Amended) The method of claim [[1]] 6 wherein in the heating step (c) the impregnated porous inorganic oxide is raised to the synthesis temperature in a period of time short enough to preclude the formation of zeolite crystals larger than about 100 nm in size.
- 4. (Original) The method of claim 3 wherein the zeolite in the product has a crystal size of from about 25 to about 100 nm.
  - 5. (Original) The method of claim 4 wherein the zeolite is zeolite Y.

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6. (Previously Presented) A method for making a zeolite, comprising the steps of:

- a) providing a porous inorganic oxide;
- b) impregnating said porous inorganic oxide with a liquid solution containing a micropore-forming directing agent, wherein the amount of liquid solution is no more than about 100% of the pore volume of the inorganic oxide, and the concentration of the micropore-forming directing agent in the liquid solution ranges from about 25% to about 60% by weight; and,
- c) heating the impregnated porous inorganic oxide at an elevated synthesis temperature for a duration of time sufficient to form a zeolite-containing product wherein the porous inorganic oxide is raised to the elevated synthesis temperature in a period of time less than about 3,600 seconds.
- 7. (Previously Presented) The method of claim 6 wherein the period of time in which the porous inorganic oxide is raised to the elevated synthesis temperature is less than about 120 seconds.
- 8. (Currently Amended) The method of claim [[1]] 6 wherein the liquid solution is an aqueous solution.

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- 10. (Currently Amended) The method of claim [[1]]  $\underline{6}$  wherein the inorganic micropore-forming directing agent is an alkali metal hydroxide or an alkaline earth metal hydroxide.
- 11. (Original) The method of claim 10 wherein the micropore-forming directing agent is sodium hydroxide.
- 12. (Currently Amended) The method of claim [[1]] 6 wherein the concentration of inorganic micropore-forming directing agent ranges from about 25% to about 55% by weight.
- 13. (Currently Amended) The method of claim [[1]] 6 wherein the concentration of inorganic micropore-forming directing agent ranges from about 40% to about 50% by weight.
- 14. (Currently Amended) The method of claim [[1]]  $\underline{6}$  wherein substantially no organic directing agent is present.
- 15. (Currently Amended) The method of claim [[1]] 6 wherein the synthesis temperature ranges from about 50°C to about 150°C.

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16. (Currently Amended) The method of claim [[1]] 6 wherein the synthesis temperature ranges from about 70°C to about 110°C.

17. (Currently Amended) The method of claim [[1]] 6 wherein the porous inorganic oxide is a silicon-aluminum-oxygen containing compound.

18. (Currently Amended) The method of claim [[1]] <u>6</u> wherein the porous inorganic oxide has a structure having mesopores and/or macropores.

19. (Original) The method of claim 15 wherein the zeolite-containing product is a composite structure retaining the framework morphology of the porous inorganic oxide but wherein at least some of the porous inorganic oxide is converted to crystalline material.

- 20. (Original) A method for making a nanocrystalline zeolite comprising:
- a) providing an porous aluminosilicate material having a structure including mesopores and/or macropores;
- b) impregnating the aluminosilicate material with an aqueous solution containing from about 25% to about 55% by weight of sodium hydroxide, wherein the

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amount of aqueous solution is from about 80% to 100% of the pore volume of the aluminosilicate material; and,

- c) heating the impregnated aluminosilicate to an elevated synthesis temperature for a duration of time ranging from about 15 minutes to 5 hours to produce a product containing at least 76% zeolite with a crystal size less than 100 nm.
- 21. (Original) The method of claim 20 wherein the product is a composite structure retaining the structure of the porous aluminosilicate but wherein at least some of the amorphous aluminosilicate is converted to the zeolite.
  - 22. (Original) The method of claim 21 wherein the zeolite is zeolite Y.
- 23. (Original) The method of claim 22 wherein the zeolite Y has a crystal size of less than 100 nm and a pore size of from 7 Å to about 8 Å.